# SOUTH PLATTE RIVER BASIN WATER DEVELOPMENT CONCEPT

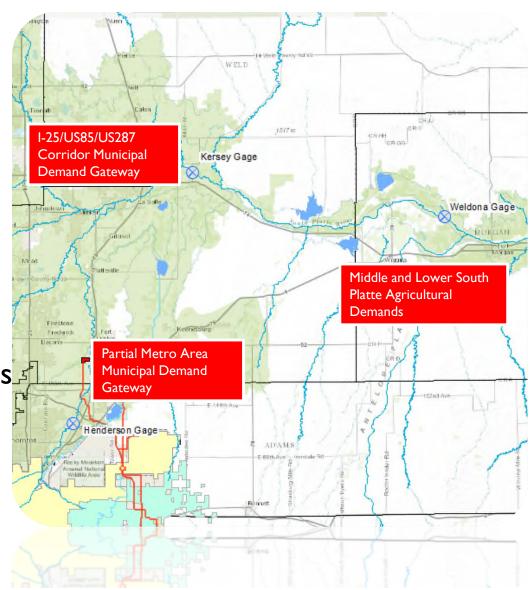
South Platte Regional Opportunities Working Group

#### Who is SPROWG?

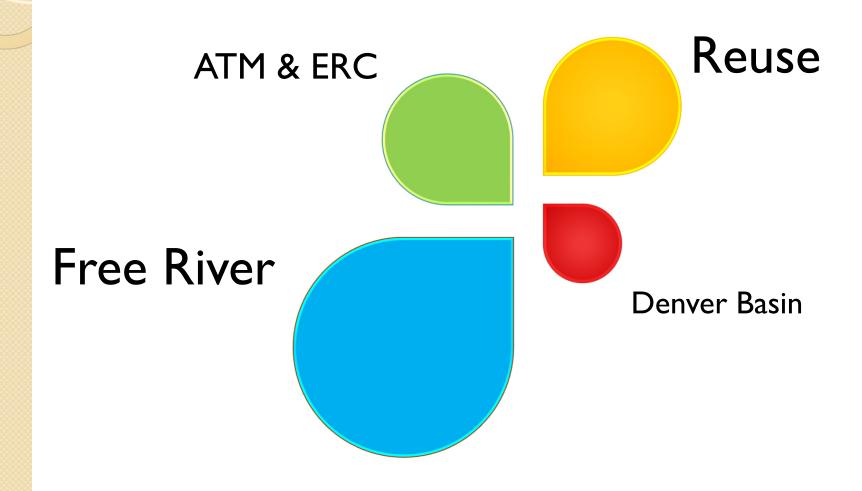
- Regional water providers came together in 2015 to investigate regional supply concepts
- Took off agency hats
- Why?
  - Maximize use and effectiveness of available water on South Platte
  - Minimize traditional agricultural "buy and dry"
  - Evaluate cooperative, multi-purpose/user supply projects to fill Ag and M&I gap.

#### Define Demands

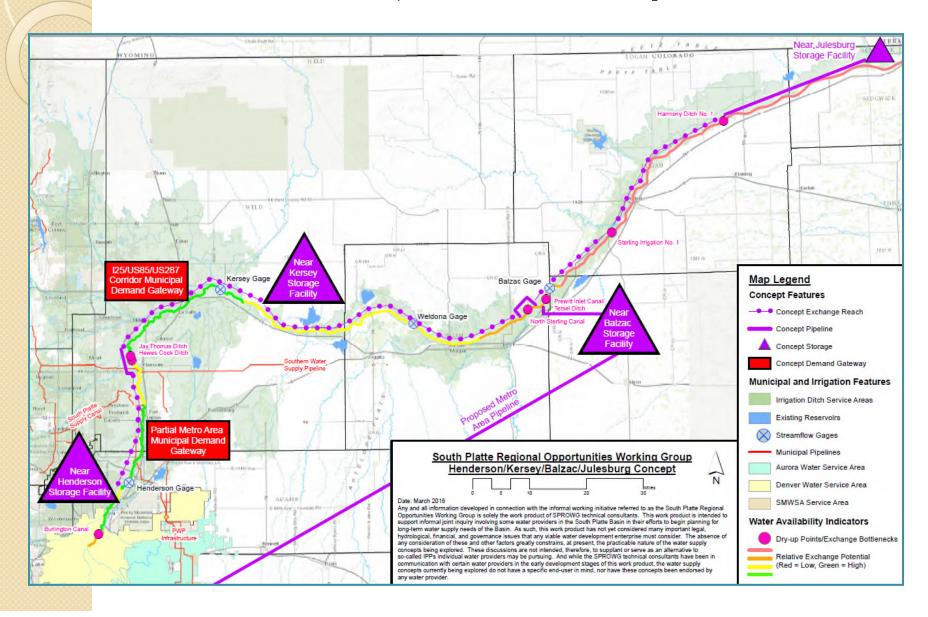
- I-25/US85/US287Corridor MunicipalDemand Gateway
- Partial Metro AreaMunicipal Gateway
- Middle and Lower
  South Platte
  Agricultural Demands
- > 50,000 acre-feet on average annually

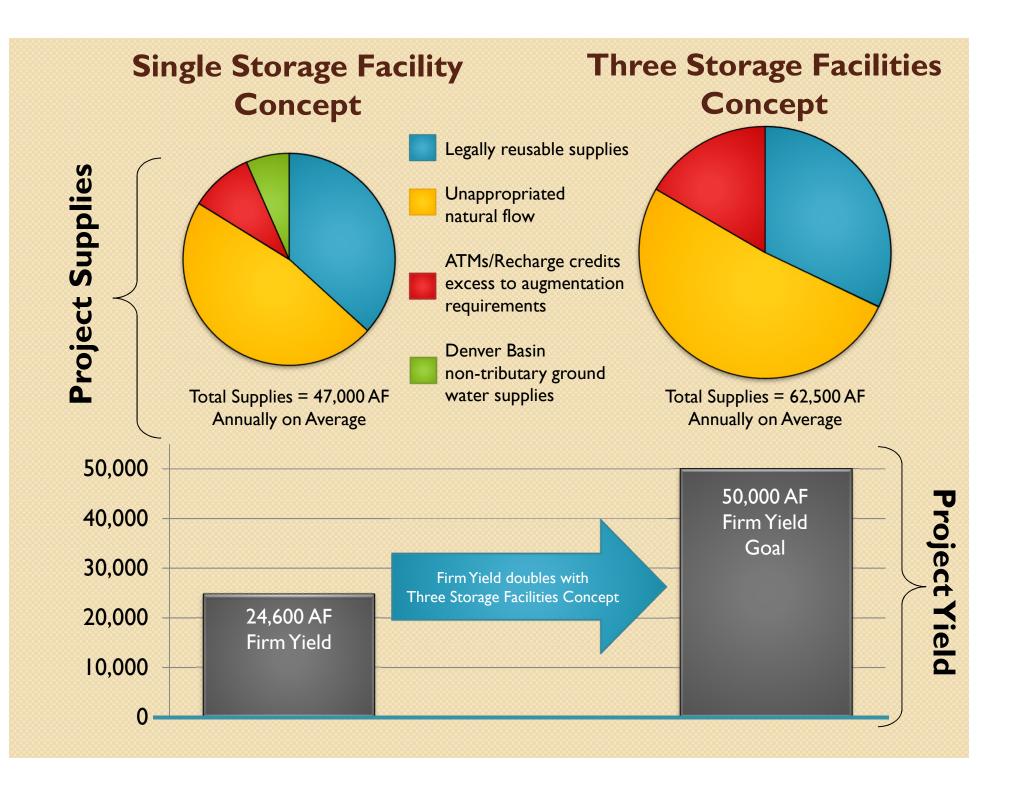


## Evaluate Water Supplies



## **Project Concepts**





#### Initial Lessons Learned

- Storage Facility/Conveyance Infrastructure combination that feasibly could provide 50,000 AF firm yield
- Upstream storage is critical, unless willing to rely exclusively on pumps/pipelines
- Capacity is key:
  - Large intake capacity to capture Free River flows
  - Storage facility carry-over for five-year drought period (2003-2008)
- Reusable supplies are critical for firm yield

### Supporting Efforts

- South Platte/ Metro BIP
- Conservation and reuse
- Maximize nativeSouth Platte RiverBasin supplies
- Minimize buy-anddry and maximize ATMs
- Manage risk of increased demands and reduced supplies
- Promote multipurpose storage projects

- Colorado's Water Plan
- Attain 400,000 acrefeet of water storage to manage and share conserved water and IPP yield by 2050
- Achieve 50,000 acrefeet of water
   secured through
   alternative transfer
   methods (ATMs)by
   2030

- South Platte Storage Study
- Refine hydrology and exchange potential
- Cooperative storage projects with multiple users
- Storage that supports ATMs
- Storage upstream of Greeley
- Consider water
   sources other than
   free river

#### Potential Next Steps

- Form Task Force (South Platte & Metro BRT members and interested stakeholders) and identify funding sources to further study the concept through:
  - Identifying Partners/Organizational Framework
  - Developing Scope of Work:
    - Integration with SPSS Results
    - Perform Additional Technical Analysis